

Message Text

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TAGS: EFIS, JA, SENV
SUBJECT: IKI ISLAND DOLPHIN RESEARCH PROGRAM

REF: TOKYO 4884

1. SUMMARY: GOJ CONTINUES DEVELOPMENT OF DOLPHIN RESEARCH PROGRAM FOR IKI ISLAND AREA AS WELL AS BUDGET TO FINANCE PROGRAM. JAPAN FISHERY AGENCY HAS DELIVERED OBJECTIVES AND GENERAL OUTLINE OF PROGRAM TO FISHATT. OBJECTIVE OF PROGRAM IS ACQUISITION OF KNOWLEDGE ON PHYSIOLOGY AND ECOLOGY OF LIVING RESOURCES AND DEVELOPMENT OF ACOUSTIC AND ELECTRONIC METHODS FOR CONTROLLING MOVEMENTS OF MARINE ANIMALS. END SUMMARY.

2. GOJ HAS DELIVERED OUTLINE OF DOLPHIN RESEARCH PROGRAM TO FISHATT WHICH IS DESIGNED TO ALLEVIATE PROBLEM FISHERMEN OF IKI ISLAND HAVE BECAUSE OF DOLPHIN INTERFERENCE WITH FISHING OPERATIONS. TRANSLATIONS OF OUTLINE OF PROGRAM AS FOLLOWS:

RESEARCH OUTLINES

1. RESEARCH FOR DEVELOPMENT OF LIVING RESOURCES MONITOR-
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ING SYSTEM:

- (1) IDENTITY BY ACOUSTICS
 - (2) IDENTITY BY SOUND ORIGINATED FROM LIVING RESOURCES
2. TECHNOLOGICAL RESEARCH FOR CONTROLLING MOVEMENTS OF LIVING RESOURCES BY SOUND WAVES AND SUPERSONIC WAVES:
- (1) CORRELATION BETWEEN STIMULATION BY SOUND WAVES OR SUPERSONIC WAVES AND BIOLOGICAL MOVEMENTS:

- TO VERIFY RELATIONS WITH MOVEMENTS BY CLASSIFY-
- ING PATTERNS OF SOUND ORIGINATED FROM LARGE
- MARINE RESOURCES.
- TO VERIFY SENSITIVITY, LEARNING AND BEHAVIOR
- ECOLOGY BY APPLYING DIFFERENT KINDS OF WAVE-
- LENGTH.
- (2) METHODS OF GATHERING, INDUCING AND REMOVING:
- A. DEVELOPMENT OF MOVEMENT CONTROLLING EQUIPMENT
- BY DUMMY SOUND:

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- DEVELOPMENT OF ARTIFICIAL SHARK SOUND EQUIP-
- MENT, AND ITS INDOOR AND FIELD TEST
- B. DEVELOPMENT OF MOVEMENT CONTROLLING EQUIPMENT
- BY MECHANICAL SOUND
- C. DEVELOPMENT OF SUBSTITUTES WHICH PROVIDE
- LIVING RESOURCES WITH EVADING CONDITIONS
- MARINE MAMMALS ARE KNOWN TO BE ABLE TO
- RECOGNIZE DANGER SUCH AS SHARKS BY SOUND
- WAVES. THEREFORE, TO DEVELOP DRIFTABLE
- SUBSTITUTES WHICH CAN PRODUCE THIS EVADING
- CONDITIONS.
- (3) DESTRUCTION OF CONDITIONS FOR FORMATION OF SCHOOLS
- COMING TO FISHING GROUNDS:
- A. INTERCEPTION OF INDIVIDUAL COMMUNICATION BY
- JAMMING

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- B. BIOLOGICAL METHOD TO DETERMINE THE LEADER OF
- A SCHOOL
- C. EXPLOSIVE SOUND BY USE OF SEACRAFT OR AIR-
- CRAFT

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